

INTERNATIONAL SEARCH REPORT

International Application No

PC1/US2004/025733

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G05B23/02 G05B13/04 G05B17/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 602 761 A (SPOERRE JULIE K ET AL) 11 February 1997 (1997-02-11)	1-5, 8-14, 17-28, 31
Y	column 5, line 10 - column 12, line 23	6, 29
Y	US 5 548 528 A (HAVENER JOHN P ET AL) 20 August 1996 (1996-08-20) column 4, line 40 - column 5, line 10	6, 29
X	US 6 199 019 B1 (YUKITOMO MASANORI ET AL) 6 March 2001 (2001-03-06) column 8, line 63 - column 9, line 35	1
X	EP 1 298 511 A (RELIANCE ELECTRIC TECHNOLOGIES) 2 April 2003 (2003-04-02) paragraph '0040! - paragraph '0042! ----- -/--	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

24 January 2005

Date of mailing of the international search report

03/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Kelperis, K

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/025733

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5602761	A	11-02-1997	NONE	
US 5548528	A	20-08-1996	US 5386373 A	31-01-1995
			AU 688353 B2	12-03-1998
			AU 7375894 A	28-02-1995
			AU 677694 B2	01-05-1997
			AU 7477694 A	28-02-1995
			CA 2167588 A1	16-02-1995
			CA 2167927 A1	16-02-1995
			DE 69418199 D1	02-06-1999
			DE 69418199 T2	30-12-1999
			DE 69423895 D1	11-05-2000
			DE 69423895 T2	07-12-2000
			EP 0712463 A1	22-05-1996
			EP 0712509 A1	22-05-1996
			JP 9501782 T	18-02-1997
			JP 9504346 T	28-04-1997
			WO 9504957 A1	16-02-1995
			WO 9504878 A1	16-02-1995
			US 5539638 A	23-07-1996
			US 5682317 A	28-10-1997
US 6199019	B1	06-03-2001	CH 693568 A5	15-10-2003
			CN 1207170 A ,C	03-02-1999
			FI 981016 A	06-07-1998
			HK 1018643 A1	17-09-2004
			WO 9811417 A1	19-03-1998
			JP 10258974 A	29-09-1998
EP 1298511	A	02-04-2003	EP 1298511 A1	02-04-2003
US 2002179050	A1	05-12-2002	US 6460409 B1	08-10-2002
			DE 10122456 A1	29-11-2001
			GB 2362226 A ,B	14-11-2001
			US 2003005756 A1	09-01-2003

INTERNAT. IAL SEARCH REPORT

National Application No
PCT/US2004/025733

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/179050 A1 (PALLET TOBIAS JOHN ET AL) 5 December 2002 (2002-12-05) paragraph '0030! - paragraph '0032! -----	1